CHILDREN'S MAGAZINE OF THE YEAR

SCIENCE + ANIMALS + PUZZLES + PEOPLE + APPS + PHOTOS + BOOKS + SPORT + TOADLETS

THE WORLD'S BEST NEWS & FACTS FOR YOUNG PEOPLE

NEWS

TikTok to add time limits

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PEOPLE

Inspiring scholar sets a record

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HOW TO

Make beads from this magazine

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11 March 2023 • Issue 378
theweekjunior.co.uk

Making sense of the world

THE WEEK Junior

THE BEST MAGAZINE FOR CURIOUS KIDS

WILD ISLES

A brilliant new BBC series explores the amazing wildlife all around us p20

VISIT…

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SUCCESS STORY

Nigeria's film industry is called Nollywood, and is the country's second largest employer.

Tinubu (right) celebrates.

Nigeria in numbers

222 million – Nigeria's population in 2023, making the West African nation the seventh most populated country in the world.

50% of the population is Muslim.

18 Half of Nigeria's people are under the age of 18, which means the country has one of the youngest populations in the world.

500 There are more than 500 languages spoken in Nigeria but the three main ones are Hausa, Yoruba and English.

2,600 The length in miles of the Niger river, which flows through Nigeria into the sea.

Nigeria elects a new president

On 1 March, Bola Tinubu was declared Nigeria's new president. Tinubu received 37% of the vote in elections that took place on 25 and 26 February. However, opposition candidates say the vote was unfair and are now challenging the result.

What happened?

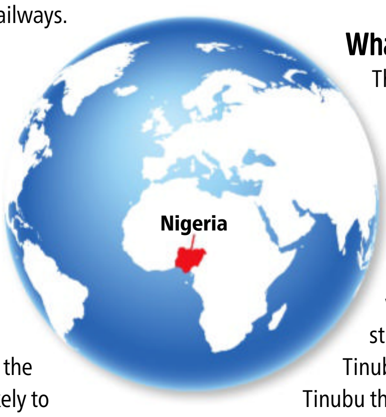
People celebrated in Nigeria's south-western states, the home region of Bola Tinubu, as he was declared the winner. Tinubu represents a party called the All Progressives Congress (APC), which is the same party as the previous president, Muhammadu Buhari. The two other main candidates in the election were Atiku Abubakar, who received 29% of the votes, and Peter Obi, who got 25%. However, of the 93 million Nigerians who were allowed to vote, only 27% did so, which was the lowest number since 1999.

Who is Bola Tinubu?

Tinubu is one of Nigeria's richest and longest-serving politicians. In 1999, Tinubu was made governor of Lagos state, which includes Nigeria's biggest city, Lagos. He stayed in power until 2007, and in that time the city's economy grew quickly, which means more money was being spent on projects. He introduced a new transport system that eased traffic problems across the city. Tinubu pointed to his success in Lagos to urge people to vote for him as president. However, in the election for president it was his rival Obi who won Lagos state. In his election campaign, Tinubu promised to deal with crime and violence, and improve roads and railways. Since his victory he has called for "renewed hope".

Why is the result disputed?

Obi said that the Nigerian people had been "robbed" of victory, and he promised he would prove it to the nation. Abubakar also said the election was unfair. Both politicians want Nigeria's highest court to overturn the election result but this is very unlikely to happen. Last year, rules for the election were laid out by the Independent National Electoral Commission (INEC), which oversees all elections in Nigeria. A new electronic system was used to speed up the counting of votes and stop fake ones. However, the system did not work as it should – some results were delayed and in several cities INEC staff were accused of changing votes in favour of the ruling party. The second part of Nigeria's general election, when voters will choose governors for 28 states and members of parliament, is due to take place on 11 March.



What was the reaction?

There were small protests in the capital city of Abuja but all three political leaders urged calm among their supporters. The outgoing president, Muhammadu Buhari, said that although the election process was not perfect, the results were still "fair", and he congratulated Tinubu. The US and the UK also sent Tinubu their good wishes, and UK Prime Minister Rishi Sunak said, "I look forward to working together." Al Chukwuma Okoli, a politics expert at a university in Nigeria, said that he doesn't think Tinubu will make the changes that many voters want and the country needs.

TikTok brings in time limits for teenagers

The popular video-sharing app TikTok is planning to introduce a 60-minute daily limit for users under the age of 18. After using the platform for one hour, young TikTok users will have to enter a passcode to continue. It is hoped this will stop young people scrolling endlessly through TikTok videos and encourage them to manage their screen time.

Users will have the option of turning off the limit but if they spend more than 100 minutes on TikTok in one day, the app will ask them to set their own time limits. Parents will also be able to set their children's time limit and see how they are using the app. Social media expert Matt Navarra told *The Times* newspaper, "This is a step in the right direction and a positive move."

Research shows that children spend about three and a half hours online every day. Experts say TikTok is right to bring in time limits but many think it should have tighter controls over the type of videos young people watch. Children's commissioner Dame Rachel de Souza, who works for the UK Government on things that affect children, told *The Times*, "I want companies like TikTok to ask themselves what more they can do to prioritise the wellbeing of their young users." TikTok users must be at least 13 years old.

TikTok
TikTok - Videos, Music & LIVE

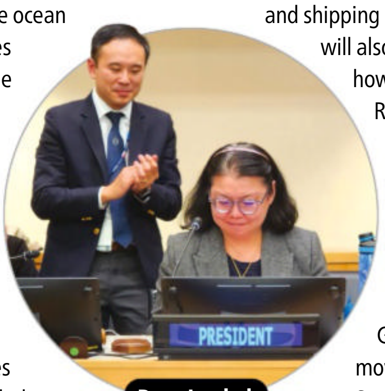
BURSTING WITH LIFE Around 2,000 new species of life are found in the world's oceans every year.

The deal will create protected areas.

Ocean protection deal agreed

On 4 March, members of the United Nations (UN) agreed the world's first international treaty to protect the high seas – parts of the ocean that do not belong to any countries and that make up nearly half of the planet's surface. The UN is an organisation of 193 countries that work together.

Only 1% of the high seas has been protected until now, and countries have been able to freely fish, carry out deep-sea research and send ships through the waters. However, some species in these waters, like sharks and whales, have been struggling because of overfishing, climate change and noisy engines on ships disturbing their natural behaviour.



Rena Lee led the talks.

The High Seas Treaty will create Marine Protected Areas where large-scale fishing, deep-sea mining and shipping routes will be restricted. Countries will also need to take more care over how their activities affect the sea.

Rena Lee, who led the talks, said, "This has been the learning journey of a lifetime." She thanked UN members who worked through the night to agree the deal. Laura Meller, from the environmental group Greenpeace, said, "We can now move from talk to real change at sea."

Separate plans have also been announced for how wildlife around England's coasts will be protected by creating underwater nature reserves (see page 10).

IT'S AN AMAZING WEEK FOR...

A DOG WITH A LONG TONGUE

An English setter based in Arizona, in the US, has become the Guinness World Record holder for the longest tongue on a living dog. Bisbee's tongue is longer than an ice lolly at 9.49 centimetres. The previous record holder was Mo, who has now died. His tongue was almost twice as long, at 18.58 centimetres.

Bisbee

SLEEPING INDOORS

Max Woosey, who began camping in his garden during the pandemic in 2020, has brought his incredible fundraising challenge to an end. Woosey, now 13, slept outdoors in a tent nearly every night for three years. He became known as "the boy in the tent", and has raised more than £700,000 for charity.

FINDING A LONG-LOST TREAT

While having building work done on her house, a woman in Devon, England, found a beautifully wrapped chocolate bar dating back nearly 100 years. When Emma Young brushed the bar dust off the bar she spotted Cadbury's famous purple packaging and a six pence price label. She contacted Cadbury's to find out how old it was, and staff said it was probably made in the early 1930s.

ON THE COVER: REX SHUTTERSTOCK · JASON ARDAY · CHARLOTTE STOWELL · ANNAPURNAINTERACTIVE.COM.
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SAFE HAVEN
From 1938 to 1940, around 10,000 refugee children were brought to the UK from Nazi-controlled Europe.

Suella Braverman announces the plan.

The Rwanda policy

HOW WE TREAT REFUGEES IS ABOUT WHO WE ARE

In April 2022, the Government revealed plans to send people arriving in the UK via illegal routes (such as on small boats) to Rwanda, in east Africa. They would then be allowed to apply for protection there, instead of in the UK. The aim of the policy was to stop people taking dangerous journeys. The plan was found to be legal by UK courts but people have not been sent to Rwanda yet because the decision is being challenged.

Small boats plan announced

On 7 March, the Home Secretary, Suella Braverman, announced new plans to stop asylum seekers from trying to enter the UK on small boats. The Home Secretary is an important person in the UK Government and is responsible for national security.

Who are asylum seekers?

Asylum seekers are people who ask another country for safety or protection after fleeing their own country because of war, violence or because they were treated unfairly due to their race, religion or nationality. If the other country grants them protection, they officially become recognised as a refugee.

Many asylum seekers arrive on small boats.

What are the rules at the moment?

Asylum seekers in the UK can ask for safety because their basic rights are protected by the United Nations (UN) Refugee Convention and the European Convention on Human Rights. The UN is an organisation of 193 countries that work together. However, a lack of safe routes available to take to the UK means that people often make dangerous journeys. In 2022, more than 45,000 people arrived in the UK on small boats.

What is the UK Government's new plan?

The plan, called the Illegal Migration Bill, states that people who arrive on small boats across the English Channel will be removed from the UK. They will be banned from ever entering again and won't be allowed to apply to be official citizens in the UK. Braverman told the House of Commons, "If you enter Britain illegally, you will be detained and swiftly removed… That is how we will stop the boats."

How have people responded?

The UN has said it is very worried and that this would be a clear break with international law. Enver Solomon, the head of the Refugee Council, said, "It's unworkable, costly and won't stop the boats." Others say we should focus on helping asylum seekers.

WORD OF THE WEEK

BUS

In the 1820s, a horse-drawn vehicle was introduced in Paris that carried passengers along a fixed route for a fare. It was called a *voiture omnibus*, meaning "vehicle for everybody" (based on the Latin word *omnibus*, "for all"). When this type of vehicle came to London it became known as an "omnibus" – which was eventually shortened to "bus".

THIS WEEK IN HISTORY

16 March 1935

Driving tests are introduced in Britain

On 16 March1935, driving tests were introduced in Britain. At first they were voluntary, to avoid a rush of candidates, but they became compulsory on 1 June 1935. Mr R Beere was the first person to pass his test, paying the equivalent of 37.5p to take it. Today it costs £62, plus £23 to take the theory test. Driving tests have only been stopped during the Second World War, the Suez crisis (a war that caused a petrol shortage) and the Covid-19 pandemic.

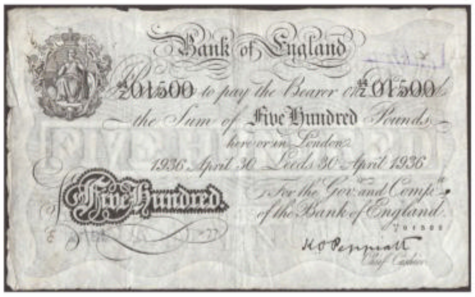
DRIVING TEST
SCHOOL OF MOTORING
L
OFFICIAL INSTRUCTION CAR
BDU 45

A driver prepares for his test.

Teachers in Scotland have been protesting.

Pay offer could end strikes

The teachers' strike in Scotland could soon be over. A strike is when people refuse to work in protest against low wages or bad conditions. Teachers have been offered a 14.6% pay rise and their trade unions (organisations that protect workers' rights) recommend members accept it. Scotland's Education Secretary said, "This reflects our commitment to reach a fair agreement and avoid further disruption to children and young people's education."


Bank of England
£01500 to pay the Bearer on Demand £01500
the Sum of Five Hundred Pounds
1936 April 30 Leeds 30 April 1936
Five Hundred
For the Gov. and Comp.
of the Bank of England
K O Peppiatt
Chief Cashier

Rare banknote sold online

An extremely rare £500 banknote has been sold at an online auction for £24,000. The costly cash was dated 1936 and signed by Kenneth Peppiatt, who was the Bank of England's chief cashier at the time. Andrew Pattison, a banknote expert from the auction house Noonans, said that £500 notes are extremely rare. He said the note that was auctioned "came from a long-term collector" and is only the second example ever to have been sold.

THE INCREDIBLE BOOK EATING BUS

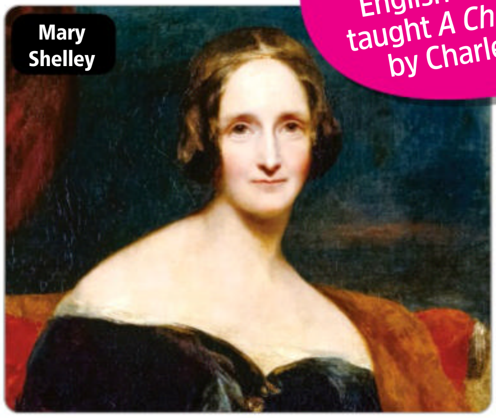
Book bus is local landmark

A primary school in County Down, Northern Ireland, has created its own book bus. When West Winds Primary School found itself without a library, it converted an old double decker bus with the help of school staff, parents, carers and children. Oliver Jeffers, author of *The Incredible Book Eating Boy*, allowed the school to use his illustrations to decorate it. Now the Incredible Book Eating Bus is "the talk of the town" said school principal Niall Manogue.

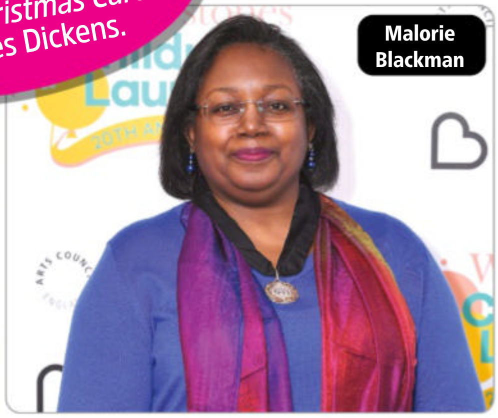
UK PARLIAMENT/ANDY BAILEY · ALAMY · GETTY IMAGES · REX SHUTTERSTOCK · NOONANS · WEST WINDS PRIMARY SCHOOL

Chimamanda Ngozi Adichie

Kamila Shamsie



Mary Shelley



Malorie Blackman

DID YOU KNOW?
In 2022, 72% of GCSE English students were taught *A Christmas Carol* by Charles Dickens.

Women writers given a boost

A new study has found that only 2% of students taking GCSE English study a book written by a female author.

The report by the End Sexism in Schools (ESIS) campaign found that across all four exam boards, *Anita and Me* by Meera Syal was the only modern novel with a female lead character and it was also the least taught.

Where there was more choice from exam boards to study books by a female author, Charlotte Brontë's *Jane Eyre* and Jane Austen's *Pride and Prejudice* were the most popular between 2018 and 2022. However, most teachers didn't feel encouraged to choose Brontë or Austen's books because both are more than 400 pages long.

The study highlights that the lack of female writers being studied means that "boys never learn to empathise with and appreciate the viewpoints and experiences of women".

Rachel Fenn from ESIS said that in order to challenge gender inequality and sexism, "both boys and girls need to be exposed to strong and empowering representations of women." Sexism is when people (commonly women and girls) are treated unfairly because of their sex.

ESIS wants exam boards to make it compulsory for pupils to study at least one book by a woman. They want to ensure there's an equal balance of male and female-authored texts with different levels of challenge to avoid books being overlooked because of their length. They also want to make sure that female characters are not mostly seen as victims or servants.

GCSE exam board Eduqas say they are "committed to refining and improving the content of our qualifications". They, along with other GCSE exam boards have decided that from September 2023 they will offer an equal split of female and male authors in modern and 19th century prose for their English literature GCSE exam.

Books by authors such as former Children's Laureate Malorie Blackman, Chimamanda Ngozi Adichie, Kamila Shamsie and Mary Shelley (all shown above) are suitable for GCSE-age students.

Author Meera Syal.

THE WEEK'S SILLIEST HEADLINE

"Koala climbs up stunned worker's leg at petrol station" *Yahoo News*

Around the world

Tallinn, Estonia
Ukraine-backing PM is re-elected

Estonia's prime minister, Kaja Kallas, was re-elected as the country's leader on 5 March. Her Reform party won 37 out of 101 seats in parliament and will need to join with another political party to form a government. Estonia shares a border with Russia and Kallas has strongly supported Ukraine in the war between the two countries.

Kaja Kallas

Finland
New border fence

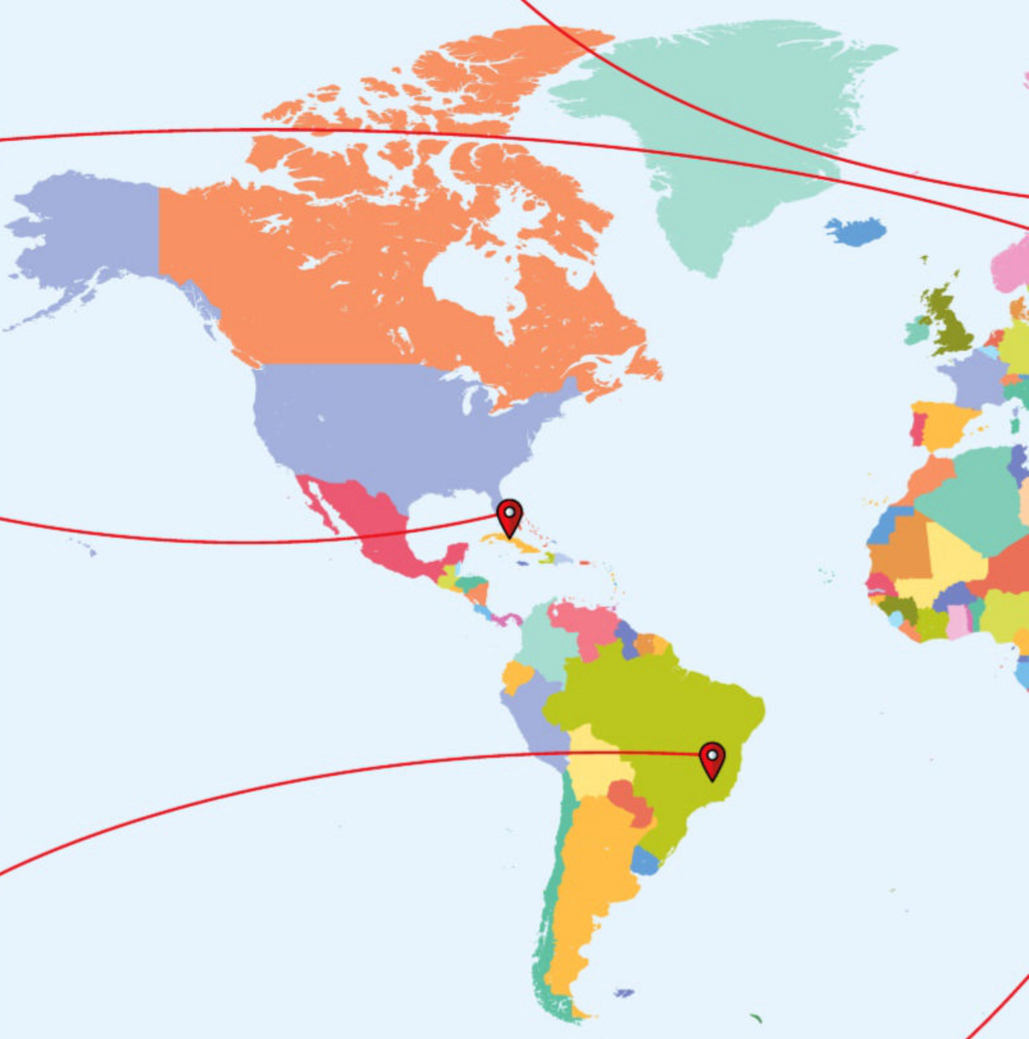
A trial section of the new fence.

Finland is building a 124-mile fence along its border with Russia. The barrier will stand three metres tall with barbed wire on top, and will be fitted with spotlights and video cameras. Much of Finland's 832-mile border with Russia is only a small wooden fence. Finland has decided to put up the new barriers following a rise in the number of Russians crossing the border to avoid having to fight in Ukraine.

Cuba
Dogs suffer shampoo shortage

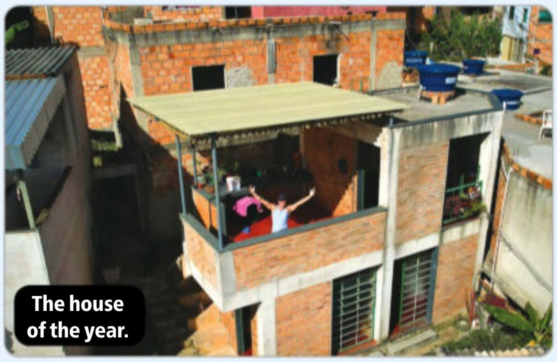
Dog lovers who look after a breed called Havanese bichons are struggling to care for them. The popular Cuban dogs have long, silky coats that need special shampoos to keep them healthy. However, there is a shortage of the shampoos, which means the dogs' fur can become knotted. That puts them at a greater risk of catching fleas.

Havanese bichons.



Belo Horizonte, Brazil
Favela shack named best house

A small home in a Brazilian favela has won a "house of the year" award. Favelas are neighbourhoods packed with small, poorly built housing. The winning house belongs to 32-year-old Kdu dos Anjos. It uses local materials and was designed to allow lots of light and fresh air into the building. Dos Anjos said, "It's a well-built shack."



The house of the year.

United Arab Emirates
Faith centre opens

A multi-faith centre, called the Abrahamic Family House, has opened in Abu Dhabi for people who follow different religions to come together. The centre includes a mosque, synagogue and church – for Muslims, Jewish people and Christians to worship. Its design features traditional styles from places of worship around the world, to highlight similarities between all three religions.

The new religious centre.

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Around the world

Israel
Legal change protests

On 4 March, around 250,000 people took to the streets to protest against the government's plans to change the way that Israel's laws are made. The prime minister, Benjamin Netanyahu, aims to limit the powers of Israel's top court. People opposing this say it will give Netanyahu too much power, and protests have been held for nine weeks in a row. One protester said, "We want to fight for what is right."

A protest in Tel Aviv.

Japan
Mathematicians hoard chalk

A type of blackboard chalk from Japan is loved by mathematicians because it is long-lasting and smooth to write with. When the company that made the chalk closed, people started buying up as much as possible and hoarding it. However, the chalk recipe has now been sold to another company and it is available again online.

The prized chalk.

Hanoi, Vietnam
New president chosen

A new president, Vo Van Thuong, has been chosen by Vietnam's National Assembly, a group of politicians who are part of the country's government. Thuong gave a speech saying he was determined to deal with corruption (dishonest behaviour) by some people in the government. Corruption is a big problem in Vietnam.

Vo Van Thuong

Sydney, Australia
Aboriginal spears to be returned

Four Aboriginal spears that were taken from Australia in 1770 by Captain James Cook will be returned. The spears were taken from an Aboriginal community and shipped to England. It has now been agreed that the spears will be sent back. Aboriginal Australians are people who have been in Australia from the earliest times.

The spears are returning.

The robot elephant.

Kerala, India
Robot for rituals

A life-sized model of an elephant has been given to a temple in Kerala to use in religious ceremonies. Live elephants sometimes take part in rituals in Hindu temples in India. According to the charity People for the Ethical Treatment of Animals, who donated the model, many are treated poorly. The temple's priest said, "We hope other temples will think about replacing elephants with robotic elephants for their rituals."

The big debate

Are exclamation marks necessary?!

A simple vertical line and a small dot can stir up strong feelings.

What you need to know

- **Children's author Michael Rosen recently interviewed punctuation expert Dr Florence Hazrat about her new book *An Admirable Point: A Brief History of the Exclamation Mark!***
- **In her book, Dr Hazrat explores how exclamation marks came into writing 600 years ago and why so many people don't like them.**
- **The Chambers Dictionary defines exclamation marks as being "used in place of a full stop to indicate emphasis or strong emotion".**
- **Exclamation marks are sometimes called "bangs", "shrieks", "gaspers" and "screamers" by journalists and writers.**

Punctuation is so important in writing that it is one of the first things you learn in school. It is a universal code with different marks to help with the meaning of what is being written. It can indicate the end of a sentence, a question or – in the exclamation mark's case – a strong feeling or emotion. Without an exclamation mark in the correct place, a warning road sign might read, "Children please drive slowly" rather than "Children! Please drive slowly". It matters how punctuation is used. However, some writers would say that exclamation marks are never truly necessary. Others think it's a misunderstood piece of punctuation, and Dr Hazrat points out that they have stood the test of time over hundreds of years. What do you think? Are exclamation marks necessary?

Yes – they're a useful punctuation mark!

An exclamation mark is a valid form of punctuation whose origin can be traced back to a 14th century Italian scholar. No one could say the question mark was unnecessary – without it, how would the reader know the writer is asking something? Likewise the exclamation mark informs the reader that there are strong feelings in the words before it. It is up to the reader to work out exactly what that emotion is but it's a useful signal. Also, exclamation marks on road signs help to keep people safe. As punctuation expert Philip Cowell writes, "There's a meaningful difference between 'duck' and 'duck!'" Of course, using them too much makes exclamation marks lose their purpose but that doesn't mean they are useless.

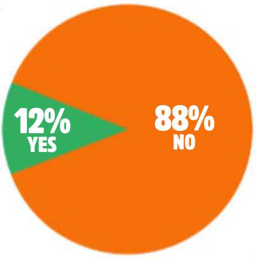
No – they are shouty and annoying

Famous author Terry Pratchett (who wrote *The Amazing Maurice*) writes that someone who uses multiple exclamation marks is likely to wear "underpants on his head". Perhaps this is because they seem shouty and forced, giving away a writer's need to tell the reader how to read a sentence. It's much better to leave them out and let the reader react to the words on their own terms. A good writer can create emotions with just words and sentences, whether that's fear, wonder or joy. Exclamation marks make the writer seem desperate and can be tiring to read. One writer in *The Atlantic* magazine described them as "the cockroach of the punctuation world", meaning they are everywhere, and they are pests.

THE WEEK Junior Scan the QR code to vote in the debate

LAST WEEK'S POLL

Last week, we asked if books should be rewritten to reflect modern opinions. Most of you thought that works by writers such as Roald Dahl should be left alone.



YES Three reasons exclamation marks are necessary

1 **Exclamation marks are just as necessary as any other form of punctuation. Their purpose is to change the tone of voice.**

2 **They lift the words on the page by expressing wonder, amazement or a wide range of strong emotions and feelings. They are a useful signal.**

3 **Exclamation marks on road signs serve a very useful purpose by protecting road users by making them aware of hidden dangers.**

NO Three reasons exclamation marks are not necessary

1 **The famous author Terry Pratchett really did not like exclamation marks because they're unnecessary. They're shouty and annoying too.**

2 **They tell the reader how to read, rather than letting them figure out the tone for themselves.**

3 **The skill of writing is in crafting words and sentences that carry emotion. It's lazy to rely on the short-cut of the exclamation mark.**

WHAT DO YOU THINK?

Now that you've read a bit more about it, tell us what you think by voting in our poll at theweekjunior.co.uk/polls. Vote YES if you think exclamation marks are necessary, or NO if you don't. We'll publish the results next week.

GETTY IMAGES

The aim of the Big debate page is to present two sides of an issue fairly and objectively, in order to stimulate discussion and allow our readers to make up their minds. The views on the page do not reflect those of *The Week Junior*, and the page is not funded by third parties. The page is created in association with the English-Speaking Union, an educational charity helping young people discover their voice and realise their full potential. For more information, please see esu.org

The champion of education for all

Professor Jason Arday's success is an inspiration.

When Jason Arday was aged three he was diagnosed with autism and global development delay, which can affect the way a person learns and understand things. He couldn't speak until he was 11, or read and write until he was 18. Now aged 37, Arday is the youngest ever black professor at the University of Cambridge.

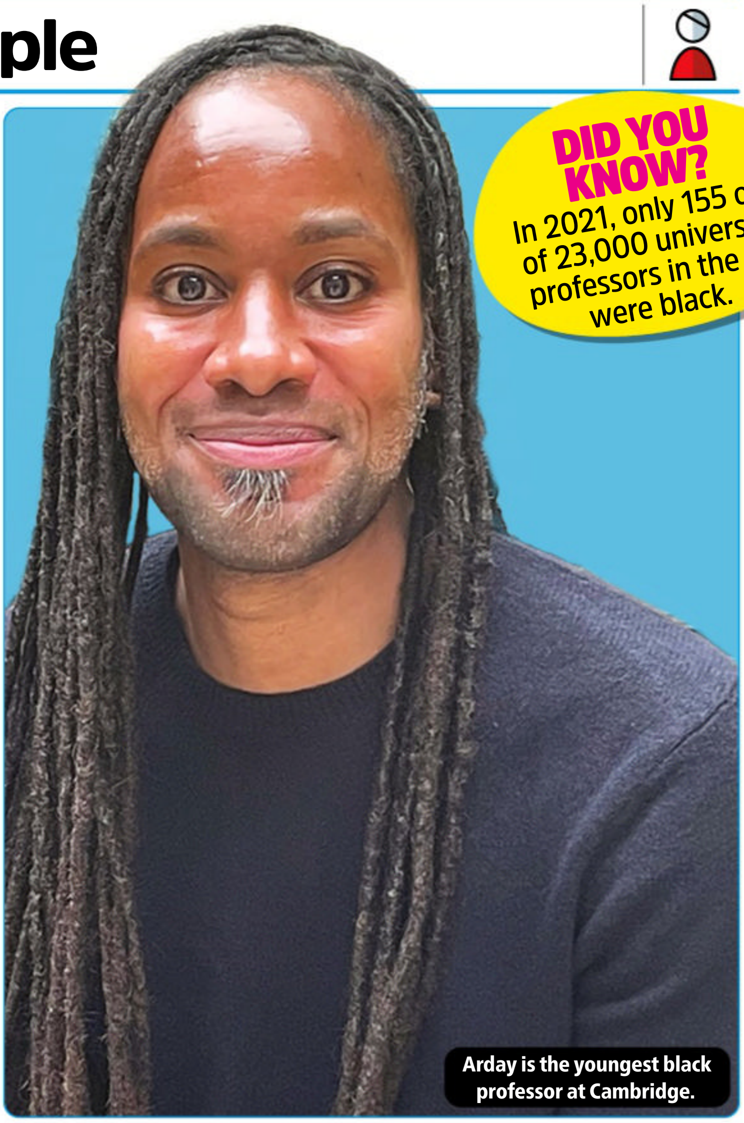
Arday has always wanted to help people. As a child he remembers thinking, "if I don't make it as a football player or a professional snooker player, then I want to save the world."

Supported by his college tutor and friend Sandro Sandri, Arday began reading and writing in his late teens. Even though he had a reading age of 13 when he started his degree, he passed and trained as a PE teacher. As he worked in schools, Arday said he could see how children from black and ethnic minorities weren't always given the same encouragement to learn.

When Arday told Sandri that he wanted to continue his studies into education, Sandri told him he could "take on the world and win".

Sandri was right, and now Arday is a professor of sociology of education at Cambridge. As one of just five black professors there, he will be studying how to make university education open to everyone, and he hopes his work will inspire other people. "Talking is one thing; doing it is what matters," he said.

Jason Arday at university.


Arday is the youngest black professor at Cambridge.

DID YOU KNOW?
In 2021, only 155 out of 23,000 university professors in the UK were black.

Abby Cook

Blue Peter has a new face

Wheelchair racer Abby Cook is *Blue Peter*'s newest presenter, and will join Mwaka Mudenda, Joel Mawhinney and Henry the dog in the studio. Cook, who is from Falkirk in Scotland, said she loved watching *Blue Peter* when she was young and is "so excited to get started". Her first challenge was abseiling down a bridge to collect her *Blue Peter* badge, which she found terrifying. Cook is the show's 42nd presenter, but the first with a disability (she has Ehlers-Danlos syndrome, which affects joints and movement). She does wheelchair racing training twice a week and also loves wheelchair basketball.

A globetrotting cricketer

Cricketer Issy Wong has already made her mark in cricket, playing for the England team and in The Hundred competition. However, she aims to go further as she takes part in the first Women's Premier League (WPL) in India. The league started on 4 March and it looks set to become one of the most popular cricket competitions in the world. Wong is playing for the Mumbai Indians, and says her time so far has been full of laughter and fun. The WPL gives Wong hope for the game's future. "There's so much potential to inspire young girls and young boys to start playing or to keep playing cricket," she says.

Issy Wong plays for Mumbai Indians.

THEY SAID IT!

"Sometimes people say my head is too big for my body and then I say, 'Compared to what?'"

Marcel the Shell With Shoes On says it's ok to be yourself.

JASON ARDAY · GETTY IMAGES · BBC

LONG AND WINDING

The coastline of Great Britain, including islands, is 19,491 miles long.

Allonby Bay in Cumbria, England.

Snappy young shrimps

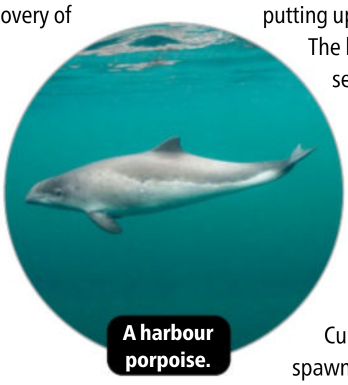
Researchers from Duke University in North Carolina, US, have discovered that young bigclaw snapping shrimps can open and close their claws 20 times faster than their parents. A snap of their claw takes 300 micro-seconds (there are a million micro-seconds in a full second) – a speed similar to that of a bullet leaving a gun. The youngsters' snap works via a spring-like device on the larger part of the claw. When the spring is released it snaps the pincers shut, creating a loud sound that is supposed to scare predators.

A bigclaw snapping shrimp.

New underwater nature reserves

The Government has announced it will create three underwater nature reserves in the sea around the coast of England. The Highly Protected Marine Areas (HPMAs) are designed to allow the recovery of marine ecosystems, which are the communities of living things and their underwater environment. The reserves will be set up by July 2023.

At the moment about 40% of the UK's waters are part of Marine Protected Areas (MPAs). However, people who fish and do other work at sea are still allowed to carry out activities that can disrupt marine life. This includes trawling (pulling a huge net through the water to catch fish) and dredging (scooping up parts of the sea bed).



A harbour porpoise.

In the new HPMAs, fishing and activities like putting up wind turbines will be restricted. The hope is that this will allow sea creatures and their habitats to recover. The HPMAs are part of the Government's Environmental Improvement Plan, which aims to restore the UK's damaged ecosystems over the next 20 years.

Allonby Bay, off the coast of Cumbria in north-west England, is a spawning ground (place to reproduce) for fish such as cod, and is home to lots of mussels (a kind of shellfish). Dolphin Head in the English Channel attracts Risso's dolphins and harbour porpoises. The largest HPMA, called North East of Farnes Deep, covers almost 500 square kilometres in the North Sea, off the coast of Northumberland. The muddy seabed here is important because it can store CO_2, a gas that is harmful if released into the atmosphere.

However, conservation experts say the plans don't go far enough. Dr Lissa Batey from The Wildlife Trusts says that the Government originally had a list of 30 areas for HPMAs. She said that the health of the sea was losing out against the short-term interests of the fishing industry, whereas in the long run, HPMAs will actually improve life for fishing crews.

NATURE SPY

Toads move to spawning spots

The common toad is an amphibian (it lives on land and in water) that can be found all over England, Scotland and Wales. They spend most of the year in gardens, hedgerows and woodland and they hibernate over winter, but on the first warm, damp evenings of the year, common toads head to ponds to breed. They are about eight centimetres long, have green-brown bumpy skin, copper-coloured eyes and short back legs. Toads crawl, rather than hop, and lay their spawn around pond plants in long strings with two rows of eggs. Tadpoles hatch after about 10 days and then change into toadlets (baby toads) over two to three months. Look out for toads crossing roads – in some places roads are even closed or special crossings made.

The common toad has warty skin.

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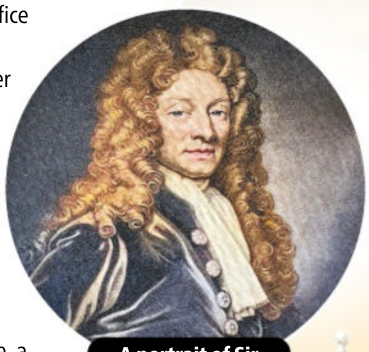
All about Sir Christopher Wren

The professor who pl

Meet the mathematician whose grand vision shaped the city.

Along the London skyline, near the Tower of London and the City's modern office blocks, sits the dome of St Paul's Cathedral. Lying just north of the River Thames, it was created by one of Britain's most gifted architects (building designers), Sir Christopher Wren. This year marks 300 years since Wren's death but who was he and why was he so successful?

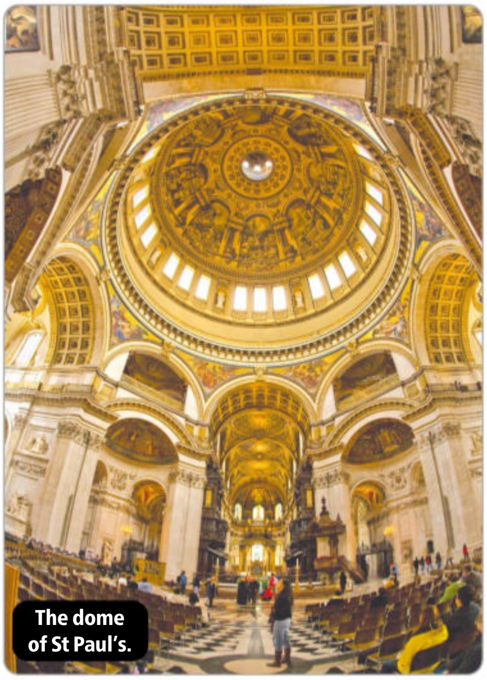

A portrait of Sir Christopher Wren.

Learning his lessons

Wren was born in 1632 in East Knoyle, a village in south-west England. He spent part of his childhood in the house of King Charles I after his father was given a job working for the royal family. There, young Christopher studied maths and astronomy (the scientific study of space). He later became a professor of astronomy in London, then at Oxford University. Still his imagination wasn't satisfied, and he used his knowledge of physics and engineering to dream up buildings that were both mathematically precise and gloriously beautiful.

A big opportunity

On 2 September 1666, the Great Fire of London broke out in a bakery and in a few days it had destroyed 13,200 houses and 87 churches, including St Paul's Cathedral. Six people died and more than 80% of the city's population were made homeless. Seeing a chance to redesign and rebuild much of London, Wren drew up ambitious plans. However, Londoners


The dome of St Paul's.

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DID YOU KNOW?
Christopher Wren featured opposite Queen Elizabeth II on the £50 note between 1981 and 1996.

Three other famous Wren buildings

Royal Observatory Greenwich

This was the perfect combination of two of Wren's passions: astronomy and architecture. The King wanted astronomers to have a place to study the night sky in more detail. The observatory was set on a hill and the builders used second-hand bricks and stone to save money.

St Michael's Church, Cornhill

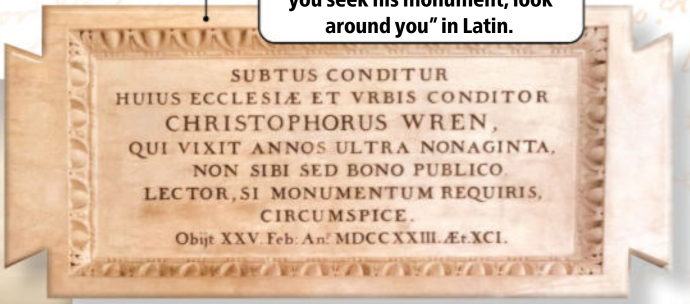
Originally medieval, this church in the City of London was one of the 52 that Wren helped to rebuild after the Great Fire of London. It stands near the spot where, it is said, the first Christian place of worship in London stood, way back in AD179.

anned London

HIGH HOPES
At 111 metres, St Paul's Cathedral was the tallest building in London for around 250 years.

It took 36 years to rebuild St Paul's Cathedral.

Sir Christopher Wren's tomb is in a quiet corner of St Paul's Cathedral, and says "Reader, if you seek his monument, look around you" in Latin.



SUBTUS CONDITUR
HUIUS ECCLESIÆ ET VRBIS CONDITOR
CHRISTOPHORUS WREN,
QUI VIXIT ANNOS ULTRA NONAGINTA,
NON SIBI SED BONO PUBLICO.
LECTOR, SI MONUMENTUM REQUIRIS,
CIRCUMSPICE.
Obijt XXV. Feb: An: MDCCXXIII. Æt. XCI.

insisted that their houses and shops must be rebuilt exactly where they were before the fire.

St Paul's Cathedral

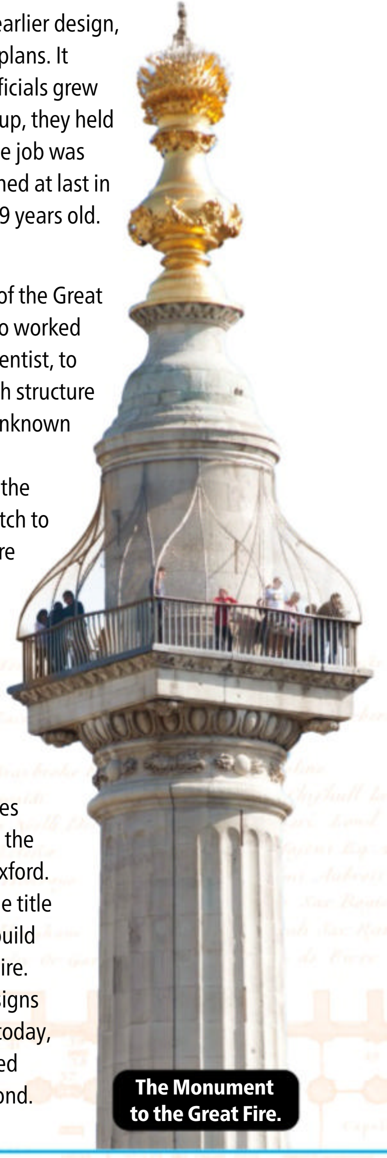
By 1666, St Paul's Cathedral was 500 years old and falling apart. Wren had been studying ideas for how to rebuild it, and after the fire, he drew up proper designs. His first two ideas had a large dome but were turned down for being too modern. The third was more traditional, with a tall, thin spire. King Charles II liked it and construction began in 1675.

Mysteriously though, as the work went on behind scaffolding, the cathedral seemed to look more and more like his earlier design, instead of the approved plans. It also took so long that officials grew impatient. To hurry him up, they held back half his pay until the job was done. St Paul's was finished at last in 1711, when Wren was 79 years old.

City monument

To stand as a memorial of the Great Fire of London, Wren also worked with Robert Hooke, a scientist, to design a 61.5-metre-high structure called the Monument. Unknown to many, it has a second purpose. In what is now the ticket office there is a hatch to a secret laboratory, where you can look all the way up the structure into the night sky, like a telescope.

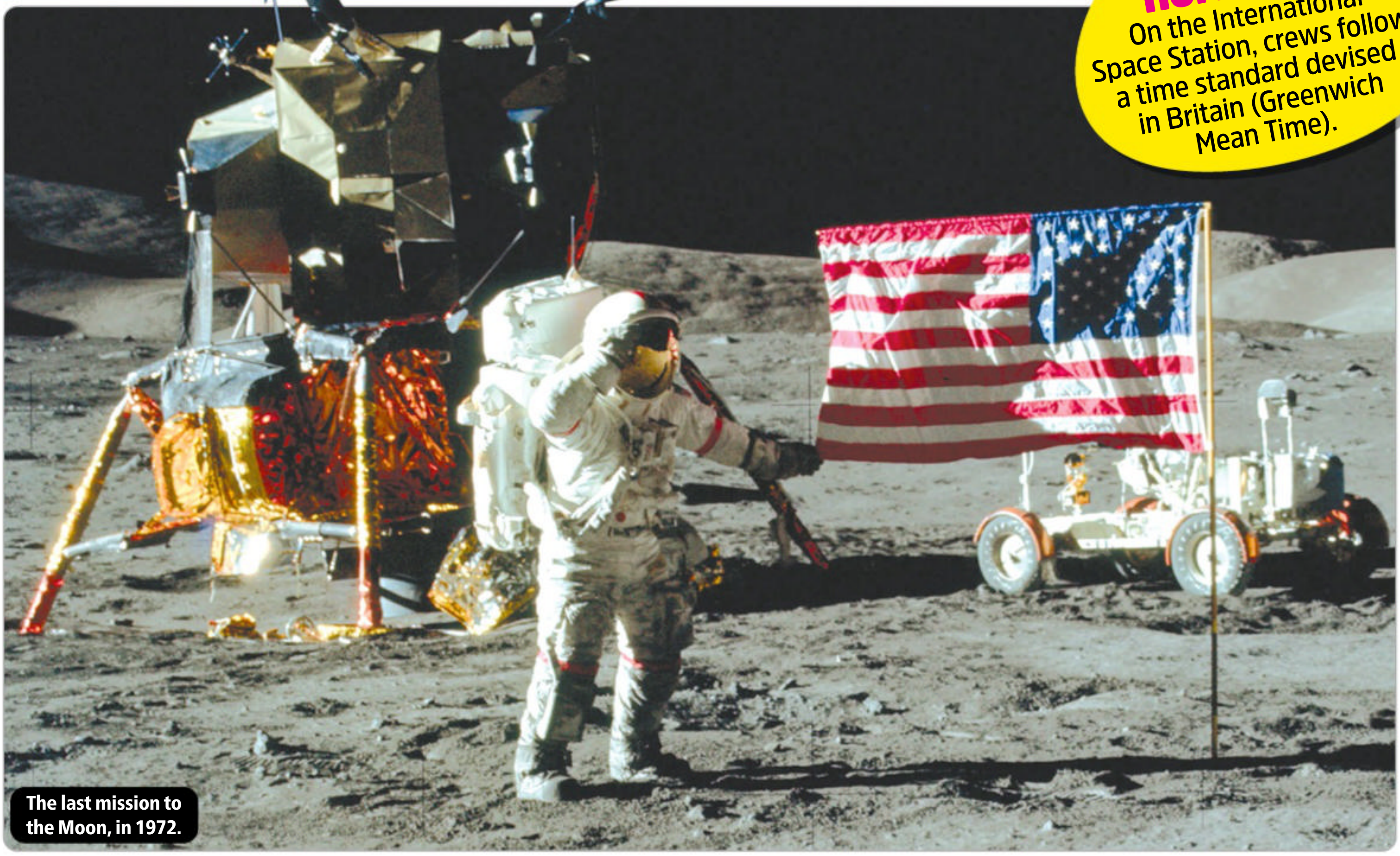
Wren also designed the houses on Downing Street, where the Prime Minister lives, the libraries at Lincoln Cathedral and the Sheldonian Theatre in Oxford. In 1673, he was given the title of "Sir" for helping to rebuild London after the Great Fire. Wren's 350-year-old designs shaped what London is today, and can still be discovered around the city and beyond.



The Monument to the Great Fire.

The Wren Library, Cambridge

Wren designed several buildings in Cambridge, including a chapel and a bridge. The Wren Library holds letters and books owned by Sir Isaac Newton, the physicist, and the original text of *Winnie-the-Pooh*.



The last mission to the Moon, in 1972.

HOME TIME
On the International Space Station, crews follow a time standard devised in Britain (Greenwich Mean Time).

A time zone for the Moon

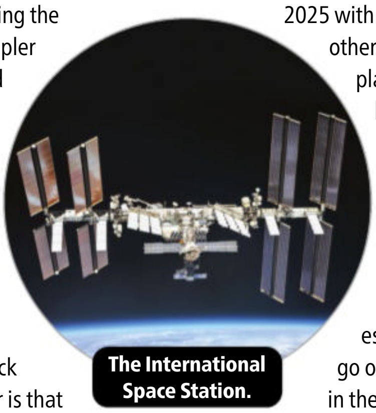
What time it is varies depending on which of Earth's time zones you are in – but what if you aren't anywhere on Earth? Scientists from the European Space Agency (ESA), a group dedicated to exploring the universe, are arguing that the Moon should have its own time zone too.

At the moment, missions to or involving the Moon use the time zone of the country that is operating the spacecraft. ESA argues that a specific time zone for the Moon would make it easier for space agencies from around the world to work together. Once missions make it to the Moon, having the same time zone would make it simpler for astronauts to communicate and travel across its surface.

Setting up a lunar time zone is not easy. Gravity affects how quickly or slowly time passes. Since gravity is weaker on the Moon than it is on Earth, clocks run slightly faster on the Moon. After 24 hours, a lunar clock would be 56 microseconds ahead of a clock on Earth. Another point to consider is that a full day on Earth is measured by the length of time between two sunsets – about 24 hours. On the Moon, the time between two sunsets is nearly 709 hours, which is about 29.5 Earth days. This means that lunar nights can be around two weeks long, with only the Earth and the stars – no Sun – in the sky. With all this to think about, scientists need to decide whether it would be better to follow a time zone on Earth, or for the Moon to have its own unique zone, which would have much longer days.

NASA is planning to land humans on the Moon in 2025 with its Artemis mission. There are also other unmanned missions to the Moon planned for later this year, organised by India, Japan, Russia and the US. The idea is that creating a time zone on the Moon would make these easier.

Bernhard Hufenbach from ESA said that if a working time system for the Moon could be established, ESA could then perhaps go on to do the same for other planets in the solar system.



The International Space Station.

Shielding Earth from sunshine

More than 60 scientists in the US, Canada and Europe have signed a letter calling for more work to be done on "solar geoengineering". This is the idea that global warming can be slowed down by reflecting sunlight back into space. One way to do this is to spray particles (a bit like dust) into the Earth's atmosphere, so that they reflect sunlight away from our planet. However, scientists say that further research needs to be done in case it causes unexpected problems.

Can we send sunlight back?

GETTY IMAGES · NASA

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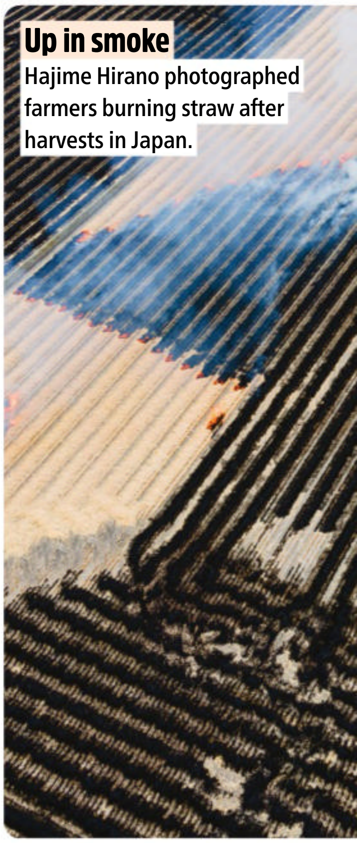
Photos of the week

SONY WORLD PHOTOGRAPHY AWARDS

Going for a walk
Manuel Rodríguez spotted this red-eyed tree frog in a Costa Rican rainforest.



Up in smoke
Hajime Hirano photographed farmers burning straw after harvests in Japan.

Ballet paws
Kazutoshi Ono snapped a cat that looks like it is performing ballet.

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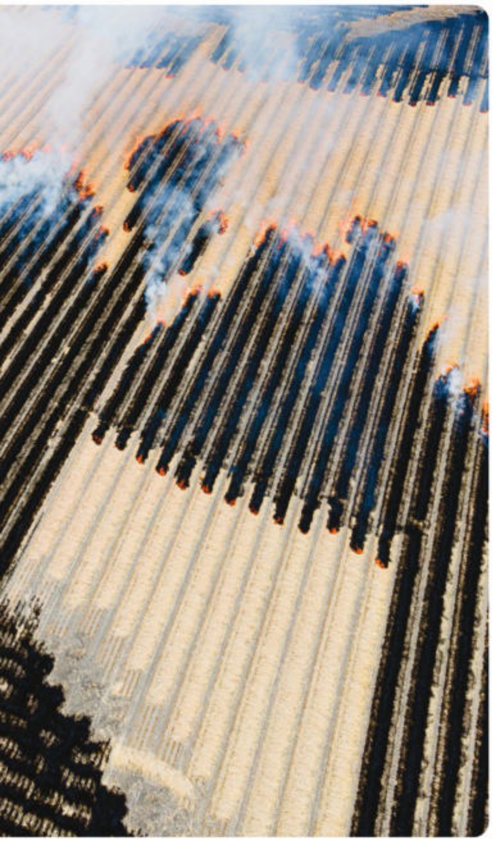
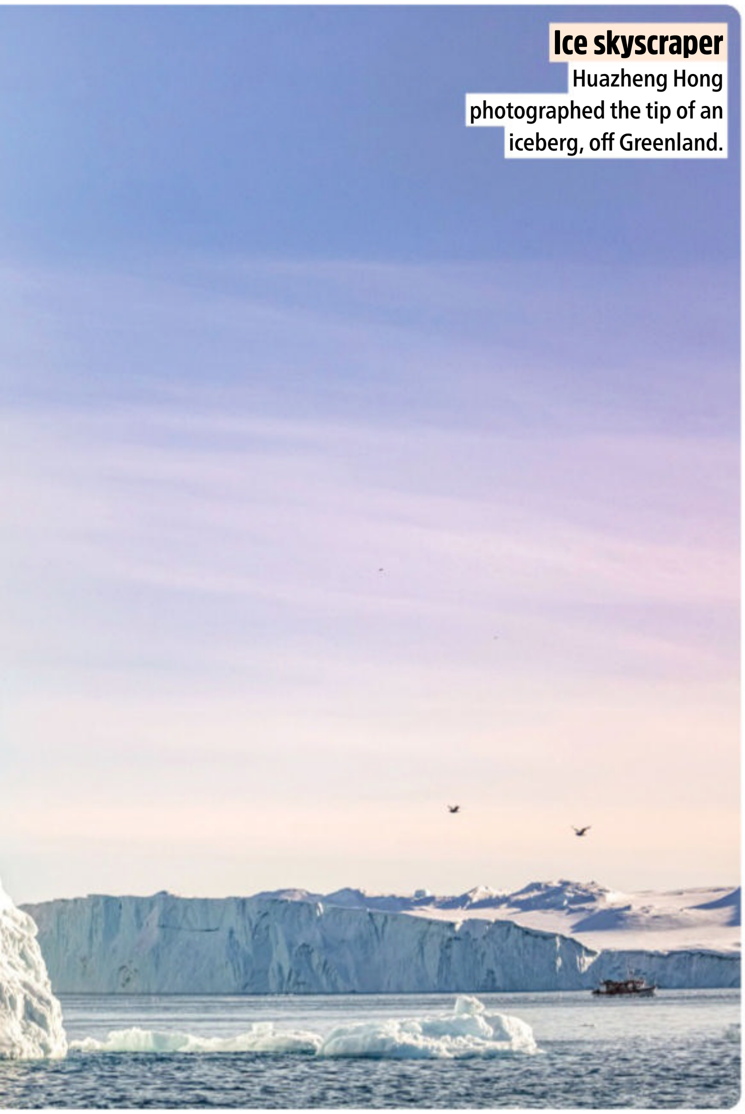
Photos of the week



Snowy wonderland
Yawar Abbas captured this wintry scene.



Ice skyscraper
Huazheng Hong photographed the tip of an iceberg, off Greenland.

Autumn morning
A deer grazes in a park in Japan, by Kyujin Jeong.

RACING AHEAD Chadwick is the first woman to drive full-time in the Indy NXT racing series for 13 years.

Jamie Chadwick at the Indy NXT race.

Jamie's dream

Jamie Chadwick

Jamie Chadwick is one of the most successful female racing drivers of recent years. She won the W Series, a racing competition for women, in each of its first three seasons. Chadwick has also competed in off-road Extreme E races. Her biggest ambition is to drive in Formula One, and she is working with the Williams F1 team in its Driver Academy scheme, while she competes in the Indy NXT. The aim of the scheme is to help Chadwick develop as a racing driver.

Chadwick enjoys Indy action

This month, Jamie Chadwick got her first taste of being behind the wheel in the Indy NXT series. She is taking part in the speedy competition with the Andretti Autosport team. There are 14 Indy NXT events across the US between March and September.

Indy NXT races are held on different types of track; some have lots of twists and corners and some are high-speed oval circuits with just two long turns. The cars look and drive like Formula One. The next level up from Indy NXT is the IndyCar Series, one of the most popular motorsports in the US, where cars reach speeds of more than 200 miles per hour.

The first Indy NXT event this month was around a challenging 1.8-mile street circuit in St Petersburg, Florida. Chadwick finished in 13th place. She was unlucky to make contact with another car that had hit a pile of tyres, so she struggled to finish higher up the rankings.

Louis Foster, an English driver who also competes for Andretti Autosport, had a memorable time too. Foster started the race in pole position (first place) after he had the quickest time in qualifying. Foster had some problems on race day, though, and eventually came 14th.

Danial Frost, with HMD Motorsports, won the race. His teammate, Nolan Siegel, came second and Jacob Abel was third. The next Indy NXT race is on 30 April in Alabama.

The winners on the podium.

THE WEEK'S WINNERS...

Laura Muir, Keely Hodgkinson and Jazmin Sawyers

Muir (1,500 metres), Hodgkinson (800 metres) and Sawyers (long jump) all won gold medals for Great Britain at the European Athletics Indoor Championships.

Arsenal Women

They beat Chelsea 3-1 to win the League Cup final. It's their first big trophy in four years.

Tom Pidcock

Tom Pidcock and Demi Vollering

Pidcock and Vollering won the men's and women's titles at the famous Strade Bianche one-day cycling race in Italy.

Max Verstappen

Red Bull driver Verstappen finished first at the Bahrain Grand Prix. It was the opening Formula One race of 2023.

PENSKE ENTERTAINMENT/CHRIS JONES · REX SHUTTERSTOCK · ALAMY

Knowing when to stop

Walking away from something you no longer enjoy can boost happiness.

SECOND CHANCE
Dwayne "The Rock" Johnson was a professional wrestler before he quit and became a huge film star instead.

Learning to let go is a valuable skill.

No one wants to be a quitter, but what if you don't enjoy an activity or hobby as much as you used to? Finding the courage to let go can boost your confidence and free up time to spend on something that makes you happy instead.

Letting go can be good for you

Nothing is fun all of the time. Sticking at something when the going gets tough teaches important skills like perseverance. However, learning to let go when things aren't right is important too. Maybe your heart isn't in playing the piano any more, or you only play football because your friends do and you want to try a different sport instead. Making the decision to walk away could free up time and energy to spend on something you really enjoy. In fact, studies show that letting go of goals you can't reach, or don't really want, can help you lead a happier, healthier life.

Try a different activity instead.

How can I tell when it's time to move on?

Unless you have a clear reason, for example an injury, it can be difficult to know when to walk away from a sport or hobby. This is hard if you've spent a lot of time and effort on it. Eric Bean is an expert in sports psychology, which means he helps athletes and teams understand their feelings. He says, "Quitting is never really a black and white issue," and suggests thinking carefully about why you aren't enjoying something any more. Is it because you've fallen out with a teammate or can't get on with a new art teacher? Talking about this with a trusted adult or friend can help you decide when to push through a challenging time and when to say, "thanks but no thanks", and move on.

Make a fresh start

Taking a different direction doesn't have to mean abandoning your path altogether. Sometimes switching to a different way of doing things can spark your interest again. For example, playing an instrument might be more fun if you take away the pressure of exams. If you do decide to give up an activity, Bean recommends picking up another where you can still enjoy things like teamwork, creativity and regular exercise.

A brave decision to take

US athlete Simone Biles withdrew from five events at the 2020 Olympic Games in Tokyo to take care of her mental health. The world champion gymnast had already won four Olympic gold medals and was expected to win even more. However, when the pressure became too much she made the brave decision to quit. Biles said afterwards that knowing when to stop and take care of yourself "shows how strong a competitor and person you really are."

Tips to help you decide if it's time to move on

- **Write a list of reasons to stop and another list of reasons to carry on. Think about what you have to gain or lose from your decision.**
- **Remember, you're not giving up, you're giving yourself an opportunity to find something else you really enjoy doing.**
- **Before deciding to stop an activity, find out if there is anything you can do to enjoy it in a different way.**

GETTY IMAGES · REX SHUTTERSTOCK

Experience our precious wild isles

See Britain and Ireland's incredible creatures in beautiful places.

Sir David Attenborough

HIGH POINT The highest filming location was by the summit of Cairngorm Mountain in Scotland, which is 1,245 metres high.

A new wildlife series called *Wild Isles,* presented by Sir David Attenborough, will start this March on BBC One and BBC iPlayer. The country's favourite wildlife presenter will be showing us that we can find plenty of natural beauty and fascinating wildlife right here, in Britain and Ireland.

The five-episode series was filmed over three years and will investigate how our grassland, woodland, freshwater and ocean habitats support wildlife of all kinds. The programme features 96 unique species, including our islands' largest and fastest predators – you'll see huge killer whales track down seals and speedy peregrine falcons seek out their prey.

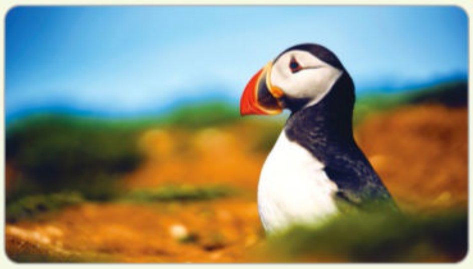
Wild Isles includes animal activities never captured before on film. One of these extraordinary sequences is of white-tailed eagles hunting geese. These eagles are the largest bird of prey in Britain and have a two-metre wingspan. You'll learn about these islands' cleverest and most cunning plants and insects too, including a plant that makes a disgusting smell to capture flies and a butterfly that tricks ants into caring for its caterpillars.

The series will show just how important Britain and Ireland are for wildlife but also how much nature we have lost and what we need to do to get it back. Did you know, for example, that the UK and Ireland are home to half of the world's common bluebells and more ancient oak trees than the whole of Europe put together?

Attenborough says that Britain and Ireland are "just as dramatic and spectacular" as anywhere else in the world and this programme is his proof. Episode one of *Wild Isles*, all about islands, is on BBC One on Sunday 12 March at 7pm, and on BBC iPlayer.

A badger among bluebells.

Three places where Wild Isles was filmed



Skomer Island, Wales

This island features in the first episode of *Wild Isles*, and is best known for being a home for puffins between April and July. Skomer also shelters seals and birds like Manx shearwaters and razorbills.

Shetland, Scotland

This is the only place in the British Isles where killer whales breed. They are our largest marine predators and one of their clever hunting techniques was filmed for the first time ever for the series.

Richmond Park, London

Richmond Park features in the woodland episode. It's been home to red and fallow deer since 1637, and about 630 live there today. The trees have a "browse line", where the deer have nibbled them.

★★ ENTERTAINMENT NEWS ★★

ABOUT TIME
The UK last hosted Eurovision in 1998 in Birmingham, England.

Liverpool in Ukraine's colours.

Eurovision festival plans revealed

Plans have been revealed for this year's Eurovision Song Contest, which will be hosted in Liverpool on 13 May. Eurovision is an international singing competition between countries all over Europe and beyond. Ukraine won last year, which means it would normally host this year's event but it can't because the war has made Ukraine too dangerous.

Liverpool is holding a two-week event called EuroFest, from 1 to 14 May, to showcase British and Ukrainian culture. In Liverpool Cathedral, Ukrainian artist Katya Buchatska will recreate a train carriage used to escape the war. There will also be a Blue and Yellow Submarine Parade, inspired by both the colours of the Ukrainian flag and the famous song *Yellow Submarine* by the Liverpool band The Beatles. A music and dance event called Rave Ukraine is planned in both Liverpool and Ukraine's capital, Kyiv, to take place at the same time.

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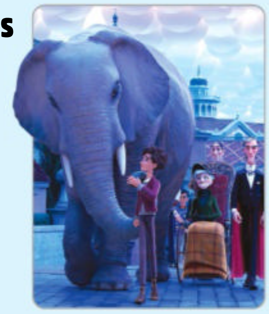
THIS WEEK'S WATCH LIST

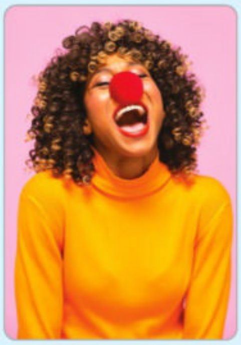
The Magician's Elephant



Available on Netflix from 17 March

This animated adventure is the story of Peter, who is searching for his long-lost sister. He needs the help of a magical elephant but first he must complete three seemingly impossible tasks.

Red Nose Day



17 March, BBC One and BBC Two

This annual comedy event raises money for people in need using the power of laughter. Expect live music, comedy sketches and stories from people whose lives have been changed by Comic Relief.

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Illustrations © 2023 Jenny McLachlan

Stray, the cat adventure game.

COWABUNGA! The Teenage Mutant Ninja Turtles were first seen in a black-and-white comic, published in 1984.

Teenage Mutant Ninja Turtles.

Gaming gongs

2022's top video games are up for prizes at the BAFTA Games Awards.

The star of this year's BAFTA Games Awards may well be… a cat!

Stray is a PlayStation and PC game about a clever cat who has to solve an ancient mystery and find his way home. It's nominated for nine awards, including Best Game, at the annual video gaming ceremony.

The awards celebrate the best video games for computers, consoles and phones, and are hosted by BAFTA, the British Academy of Film and Television Arts.

Bowser from the Mario games.

Although its glamorous awards ceremonies for films and TV shows are BAFTA's most famous events, it has been holding awards for video games since 2004.

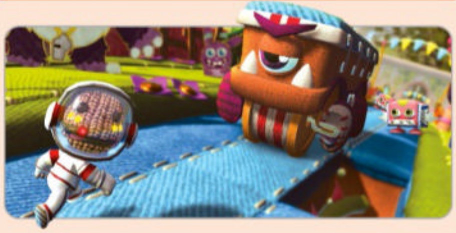
This year's event takes place on 30 March in London, when the winners in each of the 18 categories will be announced. The awards include a Family category made up of games designed to be played by young people and their families. This year it will have Mario, the Teenage Mutant Ninja Turtles and the heroes and villains of *Star Wars* battling to win.

Six games are nominated in the category: Disney Dreamlight Valley; Kirby and the Forgotten Land; Lego Star Wars: The Skywalker Saga; Mario + Rabbids Sparks of Hope; Nintendo Switch Sports; and Teenage Mutant Ninja Turtles: Shredder's Revenge.

Those heroes in half-shells have also been nominated in the Multiplayer category alongside games such as FIFA 23, Elden Ring and Splatoon 3. Other award categories include Best British Game, Best Game Design, Best Animation, Best Music and Best Debut Game.

The awards, which were voted for by more than 1,000 people in the games industry, will be streamed live on BAFTA's Twitch channel on 30 March. The games expert Frankie Ward will host the event.

APP OF THE WEEK



ULTIMATE SACKBOY

The star of the PlayStation game Sackboy: A Big Adventure has a brand new mobile game for Android and Apple phones. It's a colourful platform game where you dodge, slide and jump.

GAME OF THE WEEK

DC'S JUSTICE LEAGUE: COSMIC CHAOS

Batman, Wonder Woman and Superman are among the superhero stars of this new game for all consoles. It's a mixture of puzzle solving and battles, including a two-player team mode.

WEBSITE OF THE WEEK

BOARD GAMES
Board Games

TAMING GAMING

taminggaming.com

This is a treasure trove of games that are great to play as a family. You can use it to find fun games, whether console classics or board games.

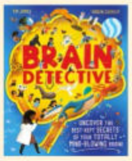
BAFTA/ANNAPURNAINTERACTIVE · BAFTA/NINTENDO · BAFTA/ TRIBUTEGAMES · EXIENT · OUTRIGHTGAMES · TAMING GAMING

Book club

5 New books for science fans

Check out these non-fiction reads that will satisfy curious seekers of science facts.

Brain Detective

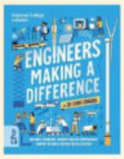


by Tim James. Illustrated by Aaron Cushley

(Wren & Rook)

Our brains are amazing – they make us move, feel, sleep, remember, forget, imagine and dream. They are also one of the most mysterious parts of the human body. Become a detective and discover the mind-blowing secrets of our brilliant brains.

Engineers Making a Difference

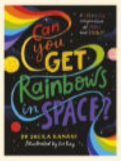


by Dr Shini Somara

(What On Earth Books)

Meet lots of incredible inventors, technicians and scientists in the pages of this book. They'll tell you in their own words about their work – whether it's designing prosthetic (artificial) limbs or creating environmentally friendly fashion. Learn how engineers are changing the world and how you might be able to join them.

Can You Get Rainbows in Space?

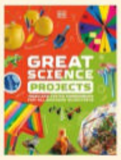


by Dr Sheila Kanani

Illustrated by Liz Kay

Why is blood red? Why are carrots orange? Is the sky really blue? What is ultraviolet light? Discover the answers to these questions and more in this fascinating book about the science of colour. You'll even find out if it's possible to make a rainbow in space. This is out in shops on 23 March.

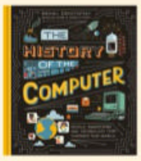
Great Science Projects



(DK)

Have a go at some amazing science experiments with this fun, hands-on book. There are more than 50 projects to try – including making a volcano, designing a wind-up car, building a marble run and constructing a wormery. Each experiment comes with lots of photographs and easy, step-by-step instructions.

The History of the Computer



by Rachel Ignotofsky

(Wren & Rook)

Computers make our lives easier – but who first created them and why? How have they transformed the way we interact with the world and each other? This illustrated book follows the computer from the counting systems of the ancient world through to the algorithms behind today's artificial intelligence, space travel and wearable technology.

DAVID DEAN

BOOK OF THE WEEK

I, Spy

by Rhian Tracey

(Piccadilly Press)

"A highly original, gripping World War II story" Emma Carroll
I, SPY
A BLETCHLEY PARK MYSTERY
RHIAN TRACEY

Robyn has grown up at Bletchley Park, where her father works as a driver. When the Second World War breaks out, Bletchley is taken over by strangers working for the war effort and Robyn's days of birdwatching, climbing trees and lake swimming are over. Now there are fences, guards and lots of rules. Robyn is made to sign the Official Secrets Act and forbidden from leaving the grounds. Soon, she's even given a job helping to look after the carrier pigeons that will deliver messages behind enemy lines. Although Robyn enjoys her work, she and her friends Mary and Ned begin to suspect that there is something sinister going on. This thrilling wartime detective tale is set at the real-life Bletchley Park, which was the top-secret home of codebreakers during the Second World War. Full of atmosphere and intriguing details, it's a great read for anyone who loves exciting historical adventures.

WIN! We have got five copies of *I, Spy* to give away to lucky readers.

For a chance to win a copy, just fill in the entry form at tinyurl.com/TWJ-books-378 before the closing date of 17 March at 11.59pm. Make sure you have a parent or guardian's permission to enter.

ASK THE AUTHOR

Rhian Tracey

The *I, Spy* author talks about secrets and an adventure involving toilets.

What's your favourite moment in *I, Spy*?

When Robyn is signing the Official Secrets Act in the mansion and she realises what's at stake if she were to break her oath. It's such a tense and scary moment and it always makes me think about my Great-Aunt Audrey signing it, when she was just a few years older than Robyn.

Which year would you visit if you had a time machine?

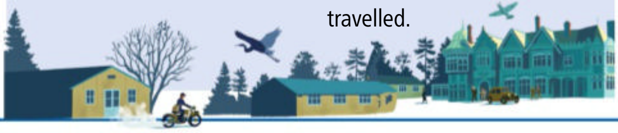
The early Victorian era, when so many entrepreneurs were inventing new machines and products. It must have been such an innovative and exciting time.

What was your last adventure?

I was doing an author visit in a school and I found myself locked in a toilet at break. I'd left my phone in my bag in the staff room so I couldn't even phone or email anyone. I had to hammer on the door and call for help. The lock was completely stuck and the window was too small to fit through. Eventually, a team of security guards had to break the door and release me!

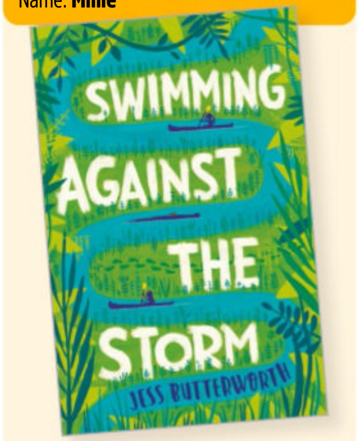
Favourite way to travel?

Walking. I love walking my dog but I also like walking around on my own finding short-cuts and paths less travelled.



READERS RECOMMEND

Name: **Millie**



Swimming Against the Storm

By Jess Butterworth

"Awesome, adventure, twists. The story of a girl, her sister and their friends, and their mission to save a community from flooding."

YOUR TURN

Email your book review to *hello@theweekjunior.co.uk*. If your review is printed in the magazine you'll receive a Roving Reporter badge. Tell us what you liked about the book and why you'd recommend it to others, and don't forget to include your name and address.*

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*If you are the competition winner, we will only use the details you provide to contact you and arrange delivery of your competition prize. Further details about how we manage the data you provide can be found at www.futureplc.com/privacy-policy

You can play in teams.

FRENCH FAVE

Pétanque was invented in the south of France in 1910.

Want to try a different ball game? Throw yourself into playing...

Pétanque

Very popular in France but also enjoyed around the world, pétanque (pronounced "pet-onk") is a simple and fun outdoor game played by people of all ages. The idea is to throw small metal balls, called "boules", as close as possible to a smaller wooden ball, known as a "jack". Games are usually played on a gravel surface.

Pétanque can be played by two people or two teams of two or three. In singles and doubles matches, each player throws three boules. When there are three on each team, a player has two boules to throw.

Games begin with a small circle being drawn on the surface. Players stand inside this while throwing. A starting team player throws the jack between six and 10 metres away. The same player then throws a boule as close as they can to the jack. Next, the opponent throws a boule and tries to get theirs closer. Players can knock another team's boules out of the way with their own. When all teams have thrown one boule, the team furthest from the jack throws again. Play continues until all the boules have been thrown.

The player or team with the closest ball to the jack wins a point. If that player or team also has other boules that are closer to the jack than the opponent, then each of those boules also scores a point. The match continues by clearing the boules away and starting again by throwing the jack. The first to reach 13 points in total wins the match.

There are two main parts of a pétanque game, called "shooting" and "pointing". Pointing is when a player tries to get the boule close to the jack. Shooting describes a player trying to knock an opponent's boule away from the jack. Boules can be bowled along the ground but on a gravel surface it's better to throw them high so that they land in the spot you're aiming for.

The distance from the jack is important.

HOW, WHAT, WHERE?

Where can you play?

As well as on gravel and light, stony ground, you can play pétanque on sand – but the boules won't roll very much. Proper, grown-up boules are made of metal and might be too heavy for very young players. Lighter plastic balls are often used by young children as they learn the basics.

How do you throw?

The best technique is to hold the boule with your palm facing towards the ground. Keep a straight arm when you throw and put your non-throwing arm out to improve your balance. Putting a bit of backspin on the ball helps it stay in the spot where it lands. It takes practise – but you will get it.

"IT IS EASY TO LEARN TO PLAY"

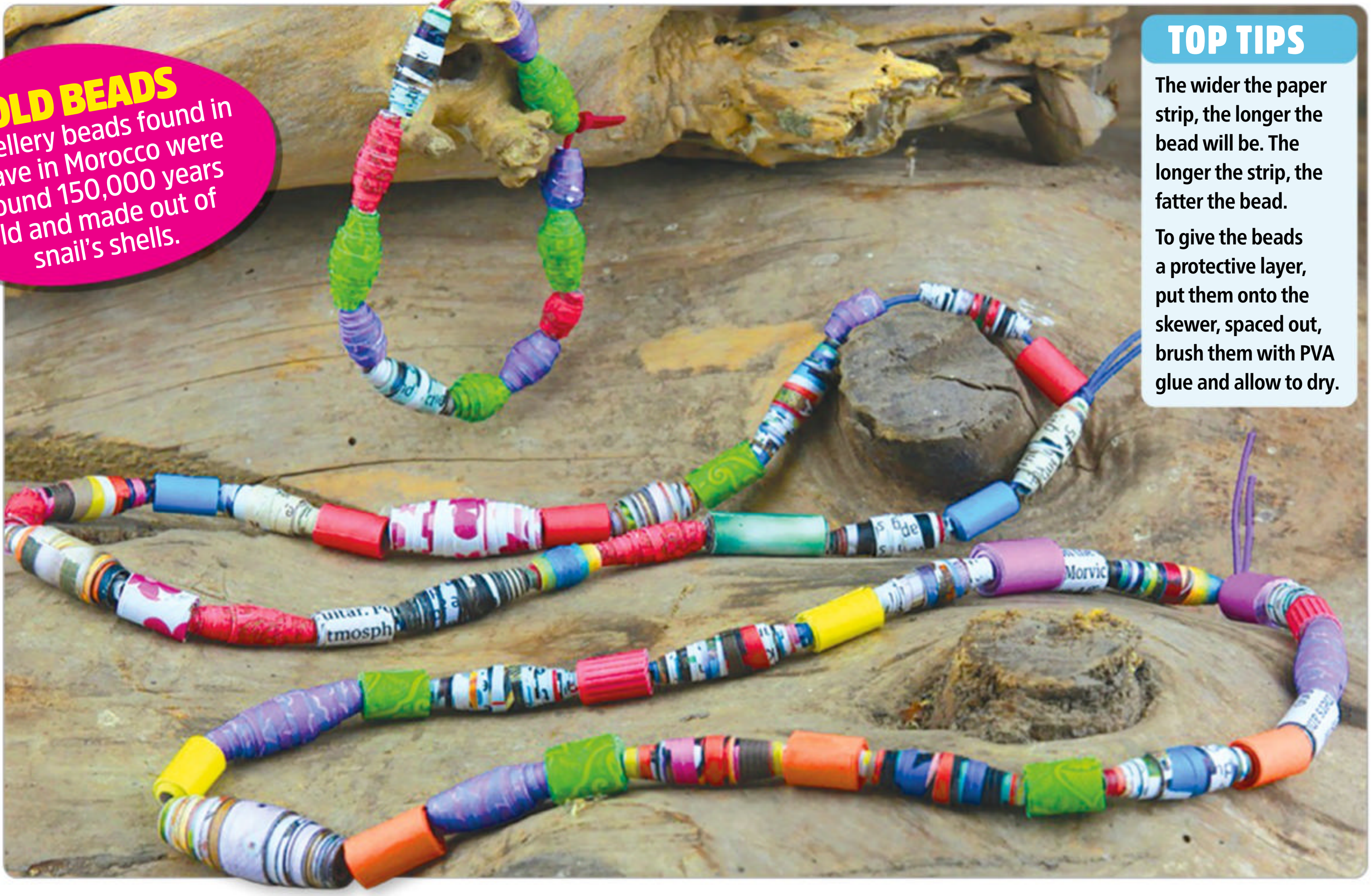
Name: Emma

"I go to France most years with my family and I enjoy playing pétanque. It's very popular there, with big tournaments you can watch. We also have a pétanque set at home and play in the garden, but it's best on gravel. You need to practise and understand the rules but it is easy to learn how to play."

ALAMY · GETTY IMAGES · REX SHUTTERSTOCK

How to...

Craft your own beads



OLD BEADS
Jewellery beads found in a cave in Morocco were around 150,000 years old and made out of snail's shells.

TOP TIPS

The wider the paper strip, the longer the bead will be. The longer the strip, the fatter the bead.

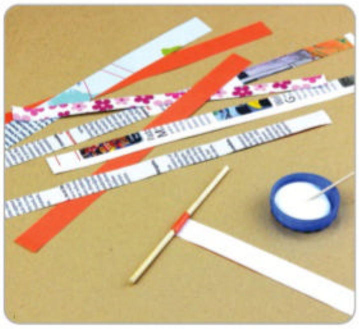
To give the beads a protective layer, put them onto the skewer, spaced out, brush them with PVA glue and allow to dry.

What you need

- Plain paper or a newspaper or magazine
- A ruler
- A pencil
- Scissors
- A thin wooden stick or skewer
- Glue
- A cocktail stick
- Thin elastic

Create a colourful necklace or bracelet for Mother's Day, a birthday or as a friendship gift, by rolling paper into beads. It takes a bit of patience but once you get going you won't be able to stop. You can change the colour, pattern, shape and size of your beads, so get ready to experiment.

1 To make simple beads with straight sides, measure out and cut some long paper strips 20–30 centimetres long and 1–2 centimetres wide. You can use plain or patterned paper, newspaper, wrapping paper or magazine pages – or decorate plain paper yourself.



2 Curl the end of a paper strip around a wooden stick or skewer (not too long, shorter sticks are better). Hold it with your fingers and start turning the skewer. After a few turns, apply a small amount of glue to the paper with the cocktail stick to stop it uncurling.

3 Keep rolling the paper until you reach the end of the strip. Put a little glue on the end, press it to hold the shape then slide the bead off the stick. Repeat to make more beads in the same way. It takes 25–30 beads for a necklace, or 12–15 for a bracelet.

4 To make an oval or round bead, cut the paper strips with diagonal sides, like long, thin triangles. Roll the paper strips around the stick in the same way, starting with the wide end. Thread your beads onto the elastic and tie it up to finish.

CHARLOTTE STOWELL

Head to theweekjunior.co.uk/activityhub for more crafts and recipes.

SCAN ME

Puzzles

Crossword

Read the clues carefully and write the answers into the grid.

Across
- 1 Jacket and trousers set (4)
- 3 Baby hens (6)
- 8 Red and blue, for example (7)
- 9 Huge Australian bird (3)
- 10 Dental cleaner found in a tube (10)
- 13 Large square of fabric used in the dining room (10)
- 17 Gran (3)
- 18 Honey-makers' nest (7)
- 19 Victoria ___, cake (6)
- 20 Tiny green vegetables (4)

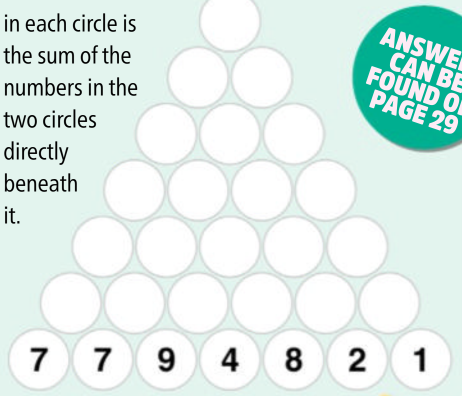
Down
- 1 Item worn on the foot (4)
- 2 House built of ice (5)
- 4 That boy's (3)
- 5 Professional cooks (5)
- 6 Dish under a cup (6)
- 7 Tortoise-like creature (6)
- 11 Flower dust (6)
- 12 Rocks (6)
- 14 Guitar-like instrument (5)
- 15 Three-wheeled cycle (5)
- 16 Human limbs (4)
- 18 Shopping container (3)

1		2		■	3	4		5		6
	■		■	7	■		■		■	
8							■	9		
	■		■		■	■	■		■	
■	10					11				
12	■	■	■		■		■	■	■	
13		14						15		■
	■		■	■	■		■		■	16
17			■	18						
	■		■		■		■		■	
19						■	20			

Number tower

Place a number in every circle to complete the tower. The value in each circle is the sum of the numbers in the two circles directly beneath it.

ANSWERS CAN BE FOUND ON PAGE 29



Sudoku

Place the numbers from 1 to 6 exactly once in each row, column and 2x3 bold-lined box, to complete the grid.

		6		2	1
	3		1	5	6
		5		3	4
	6	4	5		
	5	3	6		

Word jumble

Rearrange the scrambled letters to form four words describing snacks.

RI S PS C

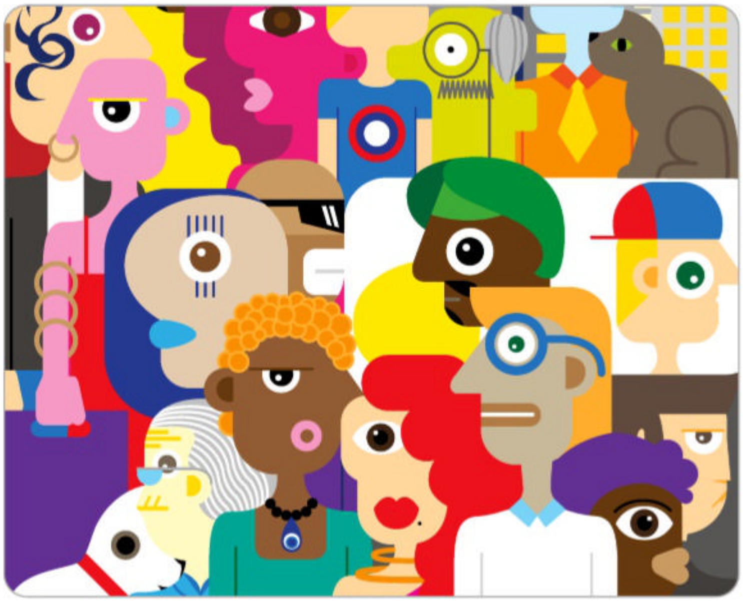
E TS S WE

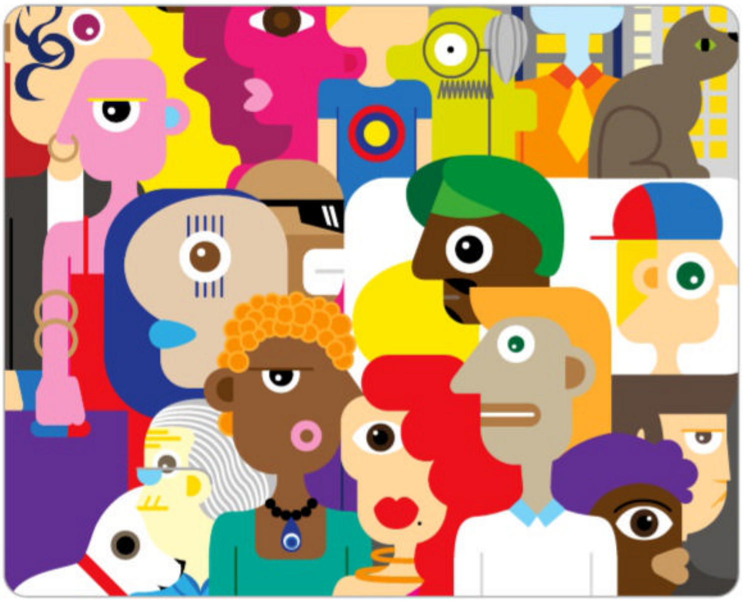
C NA OS H

O PO RN PC

Spot the difference

These two pictures appear to be the same, but take a closer look. There are actually five differences. Can you spot them?





GETTY IMAGES

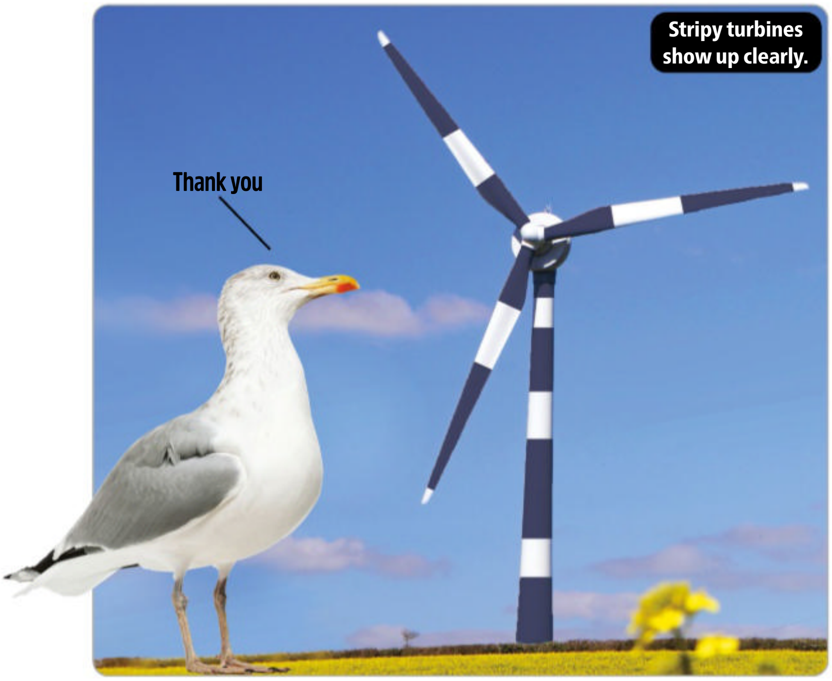
The aeroplane holiday home

On top of a cliff on the island of Bali, Indonesia, is an aeroplane that will never be used for flying again. Instead, it has been turned into a two-bedroom holiday home with a swimming pool that costs more than £5,800 a night to stay in. Converting the Boeing 737 aeroplane into a luxury villa was extremely complicated. The plane had to be taken apart so it could be carried by road to the cliff-top location, which involved two cranes and a police escort.

A luxury villa with wings.

Stripy turbines could save birds

The best location for a wind turbine is on high, open ground or near water. The trouble is that those areas attract birds too, and birds and wind turbines don't mix well. Turbine blades are usually painted white, to help them blend in with a cloudy sky. However, they blend in a bit too well for birds, which sometimes fly straight into them. To help birds steer clear of the turbines, researchers have suggested that the blades should be painted with black and white stripes, which birds will be more likely to notice and therefore avoid. So if you spot a wind turbine looking similar to a pair of striped pyjamas, you know the reason why.



Stripy turbines show up clearly.

Benjamin Meehan loves his work.

Turn a passion into a job

Benjamin Meehan is a full-time professional rollercoaster rider. He spends every weekend at theme parks around the US and earns money by filming his rides and posting them on YouTube. Meehan has visited every big theme park in the country, but his favourite is Universal, which is just two hours from his home in Jacksonville, Florida. Back at his house, Meehan works on his YouTube content – which is mostly videos of high-speed rides to the sound of people screaming.

Real OR rubbish?

PASTA WATER
Jupiter x D.S. & DURGA

Mmm, the waft of boiling pasta...

Creating a true smell of home

Between March 2021 and 2022, British people spent £418 million on scented candles with perfumes of flowers and spices. It means candlemakers are always adding new perfumes to their products, but the results might not be for everyone. For £45, people can fill their home with the aroma of a garlic-scented candle. Or, if they're after something more subtle, they can spend £60 on a US perfume-maker's "Pasta Water" candle, which has "umami depths". Watch out for candles wafting the smells of old shoes and wet dogs through the house – but is this story real? Or does it smell a bit fishy?

*Real! One perfume specialist told *The Telegraph* newspaper that cooking processes are incredibly hard to capture in candle form, and this makes it a challenge that many candlemakers are trying to perfect.

CATERS NEWS · DS & DURGA · GETTY · PRIVATE JET VILLA/FELIX DEMIN

Over to you

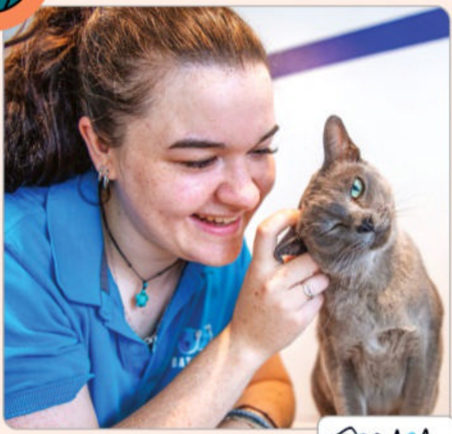
Editor's note

We are so excited about the news on our cover (and page 20) that Sir David Attenborough will be back on our TV screens, talking about a subject very close to my heart: the animals and plants of Britain and Ireland. Of course, documentaries about lions and gorillas and strange fish busying themselves on coral reefs are fascinating, but I know deep down that I'll never see them in real life. This new series, though, will show the beauty and mystery of these islands that are home – and probably make me love them even more. I hope it will inspire us all to take yet greater care of our wonderful planet. It was fantastic to read about what's being done in the UK (page 10) and across the world (page 3) to protect the sea from human harm. Every day on *The Week Junior*, I learn things that blow my mind. Did you know that there are more than 500 languages spoken in Nigeria (page 2)? Or that clocks don't work properly on the Moon (page 14)? Or that 80% of Londoners were made homeless by the Great Fire of 1666 (page 12)? Finally, our Big Debate is on exclamation marks!!!!! Feelings about them run high at *TWJ*, so listen in to the podcast and make up your own mind...

Vanessa Harriss

Editor

CHARITY OF THE WEEK



Battersea Dogs and Cats Home

Since 1860, this animal rescue centre has been offering animals in need the best care possible until a new owner is found for them. To learn more about this charity, you can go on a guided tour of Battersea Dogs and Cats Home in London to get a behind-the-scenes look at the charity's work. It also has centres in Berkshire and Kent. To discover more, head to battersea.org.uk

Let children smile again

Name: **Lukas**

"In February, a 7.8 magnitude earthquake struck in south-east Turkey and northern Syria. Two weeks later more earthquakes in the area caused more injuries and deaths.

Watching the news and seeing children living in tents, away from their schools, homes, toys and families, I decided to do something to put a smile on their face and help their mental health.

As a proud half-Turkish born student, I would like us to help Turkish and Syrian children who have been affected by this terrible disaster, with my campaign named "My Toys Are Yours".

To help children who have lost a family member, or been affected by the earthquake in any way, I asked children at my school to take part in a fundraiser event. On 10 March, they can get involved by dressing in the colours of the Turkish and Syrian flags. All money raised will go towards the Disasters Emergency Committee's Turkey-Syria Earthquake appeal. You can find out more at tinyurl.com/TWJ-Lukas"

MY TOYS ARE YOURS

What have you been up to lately? Which books have you enjoyed reading? What have you made? Have you written a poem or drawn a picture that you'd like to see published on this page? Whatever you have to show or tell us, get in touch at *hello@theweekjunior.co.uk*

JOKE OF THE WEEK

"How do you make paper strong? Tear it – then it's ripped!"

Lottie

GET INVOLVED

Humanimal Trust Creative Awards

Humanimal Trust, the charity founded by Professor Noel Fitzpatrick, has launched its first ever Creative Awards. Inspired by the theme of British Science Week 2023, "Connections", the awards encourage young people to create a piece of visual or written work to celebrate the connections between all species. Entries will be judged by a panel including Professor Fitzpatrick, author Christopher Lloyd and the publisher of What on Earth Books, Nancy Feresten. The winners will receive books, vouchers and more. Find out how you can get involved ahead of the 31 March deadline at tinyurl.com/TWJ-Awards

Channel your creativity.

The Week Junior Roving Reporter

GET INVOLVED Email your news, views and pictures to *hello@theweekjunior.co.uk*

Over to you

YOUR PHOTOS

We'd love to see your snaps. Send them to us at *hello@theweekjunior.co.uk*
Don't forget to tell us why you took them.

THE WEEK Junior
WOMEN IN SCIENCE

"I didn't want to miss a chance to read my favourite magazine on holiday."
James

"When our electricity went out after some very strong winds I decided to read *The Week Junior* with a torch to cheer myself up!"
Emilia

"I made pancakes for my family to share on pancake day. They loved it."
Edward

Teacher OF THE WEEK

Teacher's name: **Miss Beard**

School: **Stanbridge Primary School, Bristol**

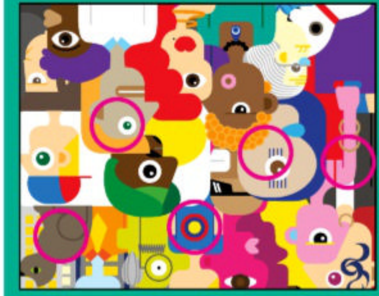
"Miss Beard is funny, helpful and tells funny stories about her pet cat!"

Jasper

If we pick your teacher as Teacher of the Week, we'll send your school three free issues of *The Week Junior*. Send your nominations, along with a picture of your teacher and your school's full name and address, to *hello@theweekjunior.co.uk*

HUMANIMAL TRUST · BATTERSEA.ORG.UK · GETTY IMAGES

Puzzles page and quiz answers



397
214 183
113 101 82
59 54 47 35
30 29 25 22 13
14 16 13 12 10 3
7 7 9 4 8 2 1

Word jumble: Crisps, sweets, nachos, popcorn.

S	U	I	T	■	C	H	I	C	K	S
O	■	G	■	T	■	I	■	H	■	A
C	O	L	O	U	R	S	■	E	M	U
K	■	O	■	R	■	■	■	F	■	C
■	T	O	O	T	H	P	A	S	T	E
S	■	■	■	L	■	O	■	■	■	R
T	A	B	L	E	C	L	O	T	H	■
O	■	A	■	■	■	L	■	R	■	L
N	A	N	■	B	E	E	H	I	V	E
E	■	J	■	A	■	N	■	K	■	G
S	P	O	N	G	E	■	P	E	A	S

3	2	1	4	6	5
5	4	6	3	2	1
4	3	2	1	5	6
6	1	5	2	3	4
2	6	4	5	1	3
1	5	3	6	4	2

1 c) Bola Tinubu **2** True **3** Brazil **4** b) 600 years ago **5** False, he's called Henry **6** Highly Protected Marine Areas **7** c) St Paul's Cathedral **8** False, clocks run faster on the Moon **9** Italy **10** c) Andretti Autosport **11** True **12** A cat **13** False, it's set during the Second World War **14** c) France **15** Wind turbines

READERS RESPOND

We love hearing from you! It's easy – just write a comment when you vote in our online Big Debate poll, or even record a voice note for *The Week Junior Show*.

Last week we asked you if you think books should be rewritten…

"I don't think Dahl books should be rewritten as his characters are clearly fictional and meant to entertain."

"Hurtful words should be changed but not the whole story."

"No way! These books are classics."

"I think books should be left as they are."

Tell us what you think of this week's issue and we'll print some of the best comments here.

THE WEEK Junior SHOW

If you've enjoyed this issue, why not listen to our podcast, *The Week Junior Show*? Go to tinyurl.com/TWJ-show or scan the QR code above. We'd also like you to take part. Give us your views on the Big Debate in this issue or tell us which was your favourite story and why. Send us a voice message by asking a parent to go to tinyurl.com/TWJ-show, scroll down and click on the red button.

Please include your full name and address so that we can send you a Roving Reporter badge if your contribution makes it onto the page. We will only use the details you provide to arrange delivery of badges, and we will not share them with anyone else. By submitting your reports and pictures, you give consent to *The Week Junior* to print them in the magazine and digital editions. We reserve the right to edit contributions for length, accuracy and suitability. Ensure you have your parent/guardian's permission before sending anything to us.

Quiz of the week

1 Who was elected as president of Nigeria?

☐ a) Peter Obi

☐ b) Muhammad Buhari

☐ c) Bola Tinubu

2 True or false? More than 45,000 people arrived in the UK in small boats in 2022.

☐ True ☐ False

3 In which country did a favela "shack" win a top architectural award?

4 When were exclamation marks introduced into written language?

☐ a) 60 years ago

☐ b) 600 years ago

☐ c) 1,000 years ago

5 True or false? The *Blue Peter* dog is called Harry.

☐ True ☐ False

6 In the sea around the UK, what does HPMAs stand for?

7 Which famous landmark in London did Sir Christopher Wren design?

☐ a) Big Ben

☐ b) Buckingham Palace

☐ c) St Paul's Cathedral

5

7

9

ANSWERS CAN BE FOUND ON PAGE 29

10

TIRES PLUS
TOTAL CAR CARE
DHL

14

8 True or false? Clocks run slower on the Moon than on Earth.

☐ True ☐ False

9 In which country is the Strade Bianche cycle race held?

10 Jamie Chadwick drove in the Indy NXT race series for which team?

☐ a) Team Penske ☐ b) Ferrari

☐ c) Andretti Autosport

11 True or false? David Attenborough's new series *Wild Isles* focuses on nature found in Britain and Ireland.

☐ True ☐ False

12 Which animal stars in Stray, a video game nominated for nine BAFTA Games Awards?

13 True or false? Rhian Tracey's novel *I, Spy* is set during the First World War.

☐ True ☐ False

14 In which country was the ball game Pétanque invented?

☐ a) Canada

☐ b) Wales

☐ c) France

15 According to scientists, what should be painted with stripes to stop seabirds flying into them?

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CHILDREN'S MAGAZINE OF THE YEAR 2022

BRITISH MEDIA AWARDS
PRINT PRODUCT OF THE YEAR 2019

BRITISH SOCIETY OF MAGAZINE EDITORS AWARDS 2018 WINNER
EDITORS' EDITOR 2018 (ANNA BASSI)

British Media Awards 2018
PRINT PRODUCT OF THE YEAR 2018

British Media Awards 2017
PRINT PRODUCT OF THE YEAR 2017

British Media Awards 2016
BEST NEW LAUNCH 2016

BRITISH SOCIETY OF MAGAZINE EDITORS
LAUNCH OF THE YEAR 2016

Talent AWARDS
BEST ART TEAM 2017

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